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## (54) HIGH SULFATE SLAG CEMENT AND ITS PRODUCTION

## (57)Abstract:

PURPOSE: To inexpensively produce a high sulfate slag cement excellent in quick setting, hardening and high-early-strength, capable of suppressing neutralization rate and obtaining a stable hardened body.

CONSTITUTION: This high sulfate slag cement is obtained by adding a stimulating agent, which uses blast furnace slag, coal ash, gypsum, lime stone, dolomite and fluorite as raw materials and is composed of a clinker containing 12.0-21.0% SiO<sub>2</sub>, 7.0-26.0% Al<sub>2</sub>O<sub>3</sub>, 0.2-7.3% Fe<sub>2</sub>O<sub>3</sub>, 50.0-67.0% CaO, 5.5-18.0% MgO, 4.0-18.0% SO<sub>3</sub>, 0.03-0.38% Na<sub>2</sub>O, 0.24-0.35% K<sub>2</sub>O, 0.10-0.43% MnO, 0.6-2.8% f-CaO and 0.7-1.5% F as essential structural components, gypsum anhydrate and aluminum sulfate or sodium citrate into a cement basis of blast furnace slag decreased in alumina and calcium and increased in magnesia and mixing and finely pulverizing the resultant mixture.

## LEGAL STATUS

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